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Effects of Urbanization on Flood Runoff

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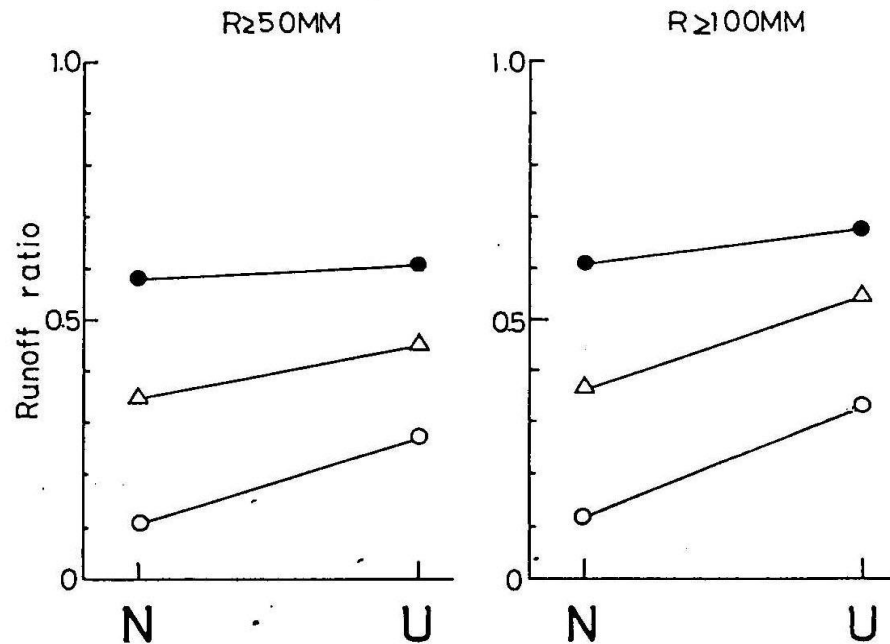


Fig. 1 Runoff ratios in total rainfall more than 50 mm and 100 mm (black circle: upper 20 %, triangle: average, white circle: lower 20 %, N: natural basins, U: urbanized basins as same as Fig. 2 and Fig. 3)

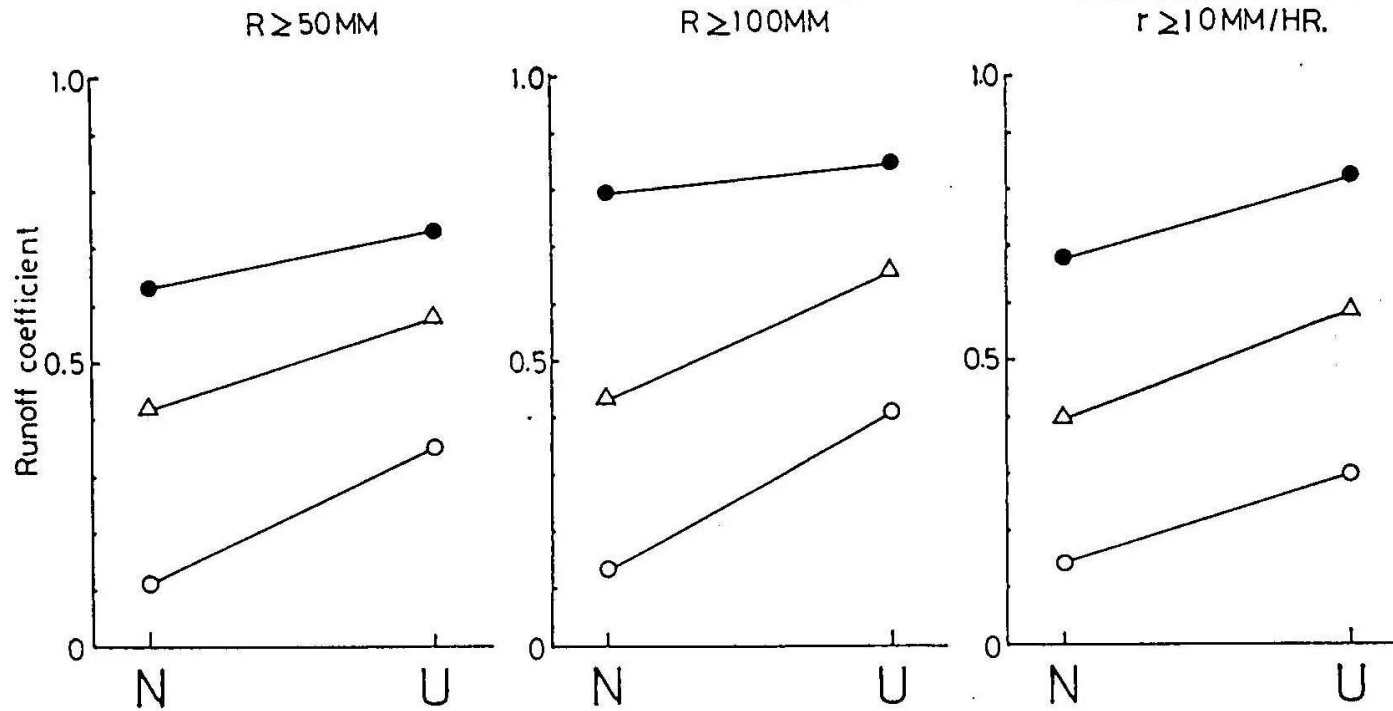


Fig. 2 Runoff coefficients in total rainfall more than 50mm, 100 mm and 10 mm of hourly rainfall intensity

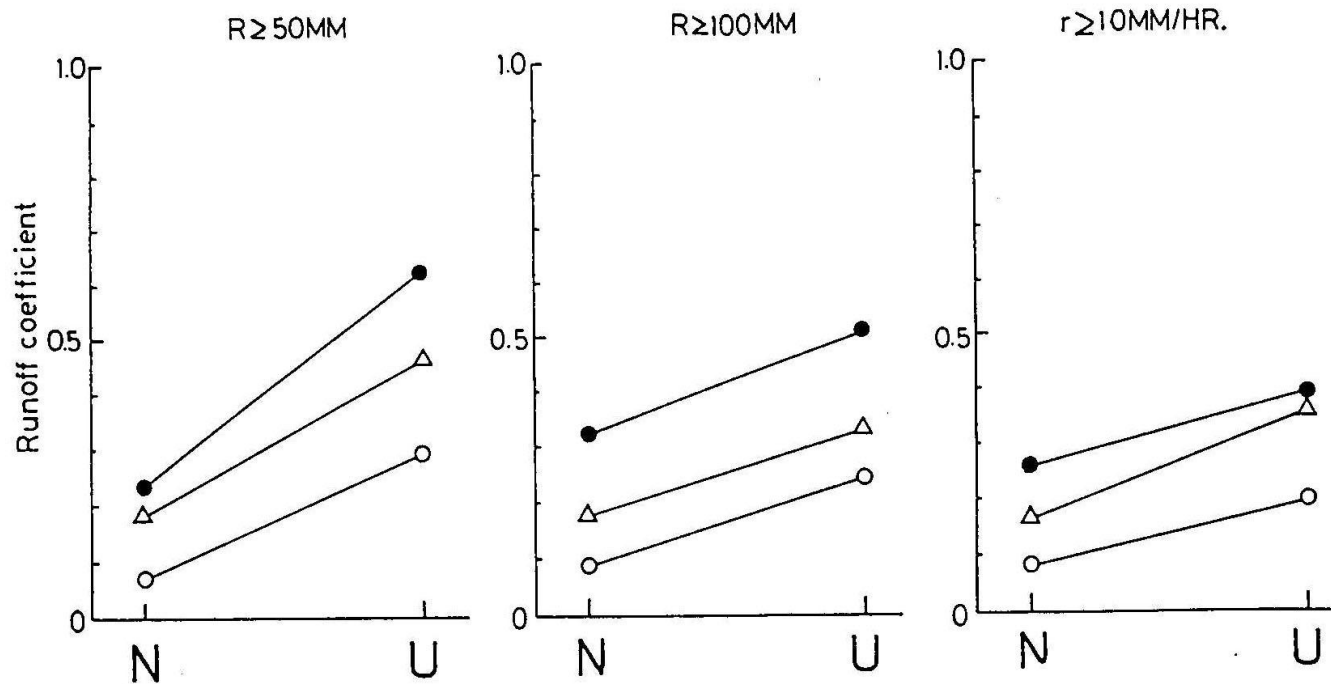


Fig. 3 Runoff coefficients in total rainfall more than 50 mm, 100 mm, and 1mm of hourly rainfall intensity only in high permeability basins

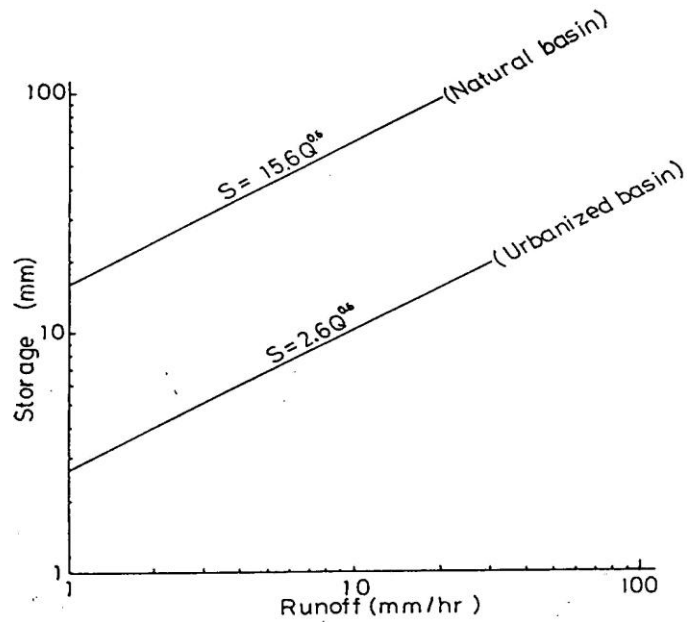


Fig. 4 Comparison of coefficients of “Storage function”

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